



Update from IEAGHG

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CSLF Technical Group Meeting, Warsaw

13 June 2023



Who are we?

Our internationally recognised name is the IEA Greenhouse Gas R&D Programme (IEAGHG). We are a Technology Collaboration Programme (TCP) and are a part of the International Energy Agency's (IEA's) Energy Technology Network.

Disclaimer

The IEA Greenhouse Gas R&D Programme (IEAGHG) is organised under the auspices of the International Energy Agency (IEA) but is functionally and legally autonomous. Views, findings and publications of the IEA Greenhouse Gas R&D Programme do not necessarily represent the views or policies of the IEA Secretariat or its individual member countries.



Arrangement between CSLF Technical Group and IEAGHG



- How CSLF TG/PIRT and IEAGHG will interact for mutual benefit through increased co-operation
- Agreed by IEAGHG ExCo Oct 2007 and CSLF Technical Group Jan 2008

IEAGHG Primary Activities



- Funding research into development and deployment of CCUS technologies
- Technical Reports >360 reports published on all aspects of CCUS
- International Expert Networks
 - Risk Management; Monitoring; Modelling; Environmental Research; High Temperature Solid Looping; Costs; Social Research
- Conferences
 - GHGT conferences (the largest global conference on CCS)
 - GHGT16 – 23-27 Oct 2022, Lyon France.
 - PCCC conferences – PCCC7, NETL Pittsburgh, 25-27 Sep 2023
 - Negative CO₂ Emissions conference – Summer 2024 Oxford
 - International CCS Summer Schools





ghgt-16

16TH GREENHOUSE GAS CONTROL
TECHNOLOGIES CONFERENCE

23 - 27 OCTOBER 2022



Hosted by



With



- The leading conference for CCUS for more than 30 years returns for an 'in person' attendance. Hosted by Club CO2 in Lyon, France.
- Over 700 presentations in 71 sessions, 7 parallel streams, panel sessions, keynotes, plus social events
- **1200 attendees**
- All papers on SSRN [GHGT-16 Proceedings – GHGT](#)
- Refer to www.ghgt.info





ghgt-17

OCTOBER 20-24, 2024
Calgary TELUS Convention Centre, AB, Canada

HOSTED BY:

EMISSIONS
REDUCTION
ALBERTA



- Call for abstracts opens September 2023
- Sponsor prospectus available September 2023
- www.ghgt.info

Reports published



Title	Contractor	Report number	Publication date
Blue Hydrogen: Beyond the Plant Gate	Element Energy	2022-06	02/08/2022
Low-Carbon Hydrogen from Natural Gas Global Roadmap	Element Energy	2022-07	03/08/2022
Start-Up and Shutdown Protocol for Power Stations with CO ₂ Capture	Imperial College London	2022-08	11/08/2022
Defining the Value of Carbon Capture, Utilization and Storage for a Low-Carbon Future	Andlinger Center for Energy and the Environment, Princeton University	2022-09	11/08/2022
Mineral Carbonation using Mine Tailings – A Strategic Overview of Potential and Opportunities	Åbo Akademi University	2022-10	15/07/2022

Reports published



Title	Contractor	Report number	Publication date
Applying ISO Standards to Geologic Storage and EOR Projects	DNV	58-05	Sept 2022
Integrating CCS in international cooperation and carbon markets under Article 6 of the Paris Agreement	Carbon Counts	2023-01	18/01/23

Technical Reviews published



Report Title	IEAGHG Author	Report No.	pdf Creation Date
Quantifying the Socio-Economic Value of CCS: A Review	Keith Burnard	2022-TR03	03/08/22
Carbon Dioxide Removal (CDR) Workshop, Bergen, Norway, 28th June 2022	Jasmin Kemper	2022-TR04	05/08/22
5 th International Workshop on Offshore Geologic CO ₂ Storage	T Dixon, S Neades, and UT	2022-TR05	17/10/22

Expert Networks and other events in 2023



- **HTSLC Network:** 14-15 Mar 2023, Piacenza, Italy
- **Costs Network:** 12-13 Apr, Uni Groningen, NL
- **Risk Management Network:** 28-29 June, Heriot-Watt Uni, Edinburgh, UK
- **Monitoring Network:** 8-9 Aug, LSU, Louisiana, USA
- **6th Offshore Workshop:** 13-14 Sept, Aberdeen Uni, UK
- **PCCC-7:** 25-27 Sept, Pittsburgh
- Reports of each will be published



Input to WPFE



United Nations
Framework Convention on
Climate Change

CCS Side Events at COP20, COP21, COP22,
COP23, COP24, COP25, COP26, COP27

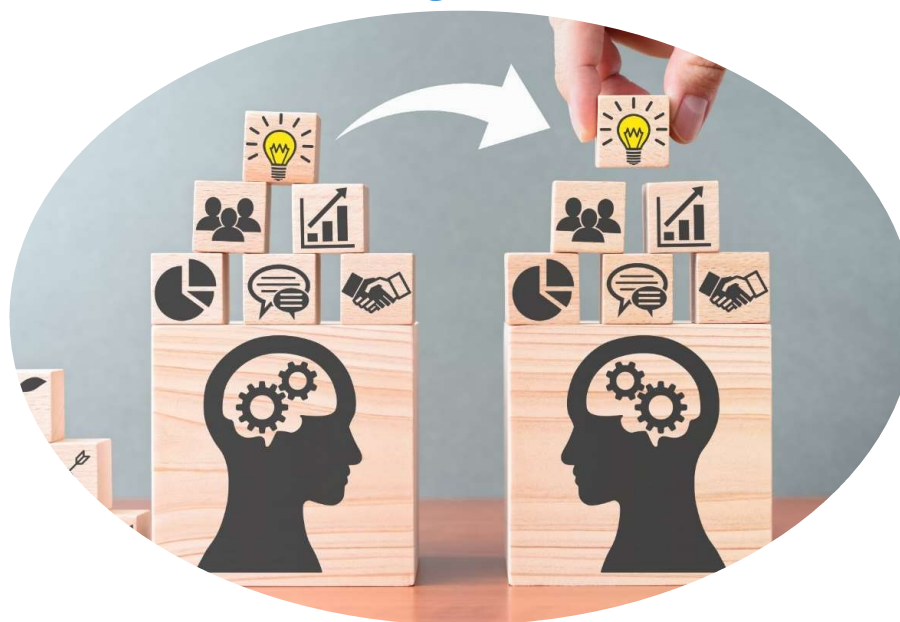


CSLF Technical Group
IEAGHG inputs



CCUS Initiative
IEAGHG inputs

Knowledge Transfer



Expert Reviewers,
Accredited Observer
AR6 reviews
AR6 – 98 comments
provided



London Convention:
Accredited Observer providing updates on CCS:
ROAD permit assessment, Offshore workshops
CO₂ Export Resolution 2019
- Report IEAGHG 2021-TR02



ISO TC-265
IEAGHG inputs



COP27 IEAGHG-organised Side-events

CCS in Africa (UNFCCC Side-event)

(IEAGHG and UT, CCSA, International CCS Knowledge Centre, Bellona)



- Tim Dixon IEAGHG – Moderator and Scene Setting
- Brad Crabtree, Assistant Secretary at the US Department of Energy - Welcome
- Dr David Khoza, **South African** Council for Geoscience – South Africa's CCS programme
- Dr. Peter C. Ekweozoh, Federal Ministry of Science, Technology and Innovation, **Nigeria**
- Dayo Adeshina, OVP, **Nigeria**
- Abdelghafour Zaabout, University Mohammed 6 Polytechnic, **Morocco**
- Dr Katherine Romanak, University of Texas – Experience in storage for Africa
- Ruth Herbert, CEO CCSA – The role of trade associations in moving CCS forward in Africa
- Lina Strandvåg Nagell, Bellona - Lessons from Norway and EU to help Africa progress CCS
- Beth Hardy-Valiaho – International CCS Knowledge Centre – Industry applications of CCS

CCS in the Caribbean (IEAGHG and UT, CATF Pavilion)



- Tim Dixon, IEAGHG – Moderator and **Scene-setting**
- Mrs Sandra Fraser, Permanent Secretary, Ministry of Energy, Trinidad and Tobago
- The Development of a Storage Atlas for Trinidad and Tobago - Professor Andrew Jupiter (UWI), Dr Donnie Boodlal (UTT) and Dr David Alexander (UTT).
- CCS in Guyana - The University of Guyana - Ms. Denise Simmons
- Caribbean and possible funding opportunities - Mr Donneil Cain - Caribbean Community Climate Change Centre (CCCCC).
- Wrap up - Dr Katherine Romanak, University of Texas

<https://enb.iisd.org/carbon-capture-storage-africa-emerging-economies> and <https://lnkd.in/gWtn6pCA> ;
<https://www.youtube.com/watch?v=j88EVTSpez0>

UNFCCC developments



- **Article 6.4 Supervisory Body**
- Framework for international carbon market based on projects/activities. Very active area in UNFCCC since July 2022. Article 6.4 Supervisory Body considering “Removals”.
 - Secretariat produced Information Notes on Removals (Land-based and Engineering-based – DACCS and BECCS) – bias against Engineering. Many submissions.
 - 5 SB meetings so far. 4 Information Notes. IEAGHG provided input 4 times
 - See <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/article-64-supervisory-body/meetings-of-the-article-64-supervisory-body>
- **Global Dialogue under Paris Agreement’s Mitigation Work Programme.** 3-5 June 2023 at SB58 in Bonn.
- Theme for this first meeting was “Accelerating the Just Energy Transition”, four technology areas: of Renewable energy, Grid and energy storage, CCUS, and Energy efficiency. GCCSI and IEAGHG provided experts for Q&A. See [First Global Dialogue and Investment Focused Event under the Sharm el-Sheikh Mitigation Ambition and Implementation Work Programme | UNFCCC](#)
- **Carbon Management Challenge.** President Biden announced. To be launched at COP28, Dubai 30/11-
 - Supported by Denmark, Australia, Canada, Egypt, the European Union, Japan, Saudi Arabia, UAE, Norway, UK and IEAGHG with other CCS organisations



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